

The listing of claims will replace all prior versions and listing of claims in the application:

Listing of Claims:

Claim 1. (original) A method for labeling an object for one or more of its identification, authentication, or asset management, which comprises the steps of:

- (a) creating on said object an algorithmic mark;
- (b) associating with said algorithmic mark one or more of Raman spectral material, a biologic taggant, an optical taggant, or a spectral quantum dot (QD) by one or more of:
 - (1) incorporating in said algorithmic mark one or more of Raman spectral material, a biologic taggant, an optical taggant, or a spectral quantum dot (QD); or
 - (2) overcoating said algorithmic mark with a transparent coating containing one or more of Raman spectral material, a biologic taggant, an optical taggant, or a spectral quantum dot (QD).

Claim 2. (original) The method of claim 1, wherein said biologic taggant is labeled with an optical taggant that one or more of emits selected detectable wavelengths of energy when exposed to infrared radiation (IR) or emits selected detectable wavelengths of energy when exposed to ultraviolet radiation (UV).

Claim 3. (currently amended) The method of claim 1, wherein said biologic taggant ~~marker~~ is formed from ~~from~~ encoded DNA bases.

Claim 4. (currently amended) The method of claim 2, wherein said ~~IR~~ taggant is an up-converting phosphor.

Cancel Claims 5-12.